

19990513.qrp v01_n456.qrl.990513

Date: Thu, 13 May 1999 19:21:13 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1456

QRP-L Digest 1456

Topics covered in this issue include:

- 1) [40300] SWL40+ Problems
by "Charles Hamel" <cdhamel@pdq.net>
- 2) [40301] SWL40+ Problems
by "Charles Hamel" <cdhamel@pdq.net>
- 3) [40302] Any comments on these antennas
by Bradford D Bilbrey <bigdawg74@juno.com>
- 4) [40303] Spring Quarterly:
by Jim Stiles <rivercity@worldnet.att.net>
- 5) [40304] fishing reel ... antenna launching
by James R Giammanco <n5ib@juno.com>
- 6) [40305] Re: World's Smallest WEB Server
by "Don Chisholm WX3M" <dchishol@oakland.edu>
- 7) [40306] Super Sunset Pictures
by Tom Palmer <n1tp@worldnet.att.net>
- 8) [40307] Battery Tech Info
by "Rod Cerkoney" <rcw@frii.com>
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by hamjoel@juno.com
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by Terry W Arnall <kb6ebz@juno.com>
- 11) [40310] Fw: MFJ - Hy-Gain
by "Larry Przyborowski" <lprzybski@erols.com>
- 12) [40311] Inspired to build!
by "Jeffrey L. L. Greer" <wd4et@juno.com>
- 13) [40312] MFJ 971 ATU
by "Charles Hamel" <cdhamel@pdq.net>
- 14) [40313] FS: OHR 100A 40M
by Ed Lawson <elawson@lr.net>
- 15) [40314] Help
by "Ian C. Purdie" <purdic@integritynet.com.au>
- 16) [40315] Mauritius on 20m
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 17) [40316] NA5N's Desert Ratt 3 Schematic and Parts List
by Jerry Parker <jparker@fix.net>
- 18) [40317] Re: Any comments on these antennas
by "Hugo W. Catta" <hugo@banet.net>
- 19) [40318] Fw: Wire Rope Antennas

- by hamjoel@juno.com
- 20) [40319] ND QSLs All in Post
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 21) [40320] MFJ-971 ATU
by "Charles Hamel" <cdhamel@pdq.net>
- 22) [40321] Re: Indoor Antennas
by N7YA@aol.com
- 23) [40322] Re: Any comments on these antennas
by applitech@mcg.net (Claton Cadmus)
- 24) [40323] VERY compact XCVR design requirement
by "Rod Cerkoney" <rlc@frii.com>
- 25) [40324] RE: Sony 2010 RX for QRP station
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 26) [40325] Junk CB part needed
by Glen Reid <k5fx@flash.net>
- 27) [40326] Re: Any comments on these antennas
by "George T. Baker" <w5yr@swbell.net>
- 28) [40327] RE: NA5N's New regenerative on the WWW
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 29) [40328] Re: Inspired to build!
by "Paul Harden, NA5N" <na5n@rt66.com>
- 30) [40329] Re: Sony 2010 RX for QRP station
by Jim <w7ls@blarg.net>
- 31) [40330] 2N2/40 Question
by PGSPersEng@aol.com
- 32) [40331] FS: HTX-100 10 meter ssb/cw transceiver
by Jim <w7ls@blarg.net>
- 33) [40332] Da Desert Ratt stuff
by "Paul Harden, NA5N" <na5n@rt66.com>
- 34) [40333] DESERT RATT PART I
by "Paul Harden, NA5N" <na5n@rt66.com>
- 35) [40334] DESERT RATT PART II
by "Paul Harden, NA5N" <na5n@rt66.com>
- 36) [40335] Re: DESERT RATT (ascii drawing)
by "Tony Fishpool" <g4wif@btinternet.com>
- 37) [40336] FS: HP-5314A small Counter/timer
by Bill Cotter <bcotter@pop.uky.edu>
- 38) [40337] Arrived at Dayton - FDI
by AE2T@cs.com
- 39) [40338] Elecraft K2 shipping question
by sda <sda@bellsouth.net>
- 40) [40339] Re: Inspired to build!
by Bruce Kizerian <kizerian@ced.utah.edu>
- 41) [40340] Re: Da Desert Ratt stuff
by Bruce Kizerian <kizerian@ced.utah.edu>
- 42) [40341] Re: Question: 80M KniGHTSMiTe + SMT TiCK
by Todd Nichols <nichols@rtp.ericsson.se>
- 43) [40342] Re: SWL40+ Problems

by Richard Rood <fcs@juno.com>
44) [40343] NQ9RP at Dayton...
by Bcieslak@ra.rockwell.com
45) [40344] FS items all promised
by Clifton W Sikes <ab5uacw@juno.com>
46) [40345] Re: More fun with a sound card
by "Stephen D. Cohen" <scohen@xps.xybion.com>
47) [40346] Re: FS OHR 100A spoken for
by elawson@lr.net (Ed Lawson)
48) [40347] Kenwood Tm 261A - Anyone else use this rig?
by Adam Israel <adam@battleaxe.net>
49) [40348] FS: Last Call...
by Ron Stark <ku7y@dri.edu>
50) [40349] MFJ 9420 20 meter SSB/CW rig for sale
by "Kevin F. Glynn" <kfglynn@prodigy.net>
51) [40350] Re: DESERT RATT (ascii drawing)
by "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
52) [40351] RE: RS Switching PS
by Larry East <w1hue@amsat.org>
53) [40352] Re: NQ9RP at Dayton...
by "W5TB - 'Doc' Drake" <w5tb@SoftHome.net>
54) [40353] trimmer capacitors
by Theodore Wong <wong_th@eng.printronic.com>
55) [40354] Re: DESERT RATT (ascii drawing)
by "Samuel A. Falvo II" <kc5tja@dolphin.openprojects.net>
56) [40355] FS = Sold (FT 101 EE)
by Ron Stark <ku7y@dri.edu>
57) [40356] Re: VERY compact XCVR design requirement
by "Steven Weber" <kd1jv@moose.ncia.net>
58) [40357] Re: More fun with a sound card
by "Jeffrey L. L. Greer" <wd4et@juno.com>
59) [40358] Re: More fun with a sound card
by "Jeffrey L. L. Greer" <wd4et@juno.com>
60) [40359] Re: Arrived at Dayton - FDIM
by AE2T@cs.com
61) [40360] Re: NQ9RP at Dayton...
by AE2T@cs.com
62) [40361] re: Masthead Transceiver
by George Gingell <k3tks@u1.abs.net>
63) [40362] Regens & Hamcom
by "Tony Fishpool" <g4wif@btinternet.com>
64) [40363] Antenna Info
by Bradford D Bilbrey <bigdawg74@juno.com>
65) [40364] Kenwood Items FS
by "Ken Simpson" <W8EK@fdt.net>
66) [40365] AR QRP Club Net Results
by Robsparks@aol.com
67) [40366] QRP Quarterly and QRPp both in UK

by peter barville <peter@barville.demon.co.uk>
68) [40367] 2n2/40
by "JUNIUS B FOX" <w5hir@ghg.net>
69) [40368] Re: DESERT RATT (ascii drawing)
by "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
70) [40369] Re: More fun with a sound card
by Laura Halliday <lha@sdr.utias.utoronto.ca>
71) [40370] FDIM Scoop - K2 Winner
by AE2T@cs.com
72) [40371] Re: Da Desert Ratt stuff
by Arjen Raateland <Arjen.Raateland@vyh.fi>
73) [40372] Re: NQ9RP at Dayton...
by "Samuel A. Falvo II" <kc5tja@dolphin.openprojects.net>
74) [40373] FS: Uniden HR-2600 ten meter transceiver
by Bill Cotter <bcotter@pop.uky.edu>

Date: Thu, 22 Apr 1999 04:51:07 -0500
From: "Charles Hamel" <cdhamel@pdq.net>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [40300] SWL40+ Problems
Message-ID: <006601be8ca5\$a7459400\$9be390d1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

Well I thought I had my SWL40+ working ok, but I was wrong, as soon as I put it in a case it stopped working properly. Now I can't keep a sidetone. When I start keying I have to adjust T2 & T3 to get a decent sidetone with clicks in it. Then when I start sending after a minute or two, the sidetone will go away and you get a terrible static or motorboating sound upon keydown, after adjusting T2 & T3 I can manage to get a sidetone back, but 2 minutes later Blahh!!

Thanks

Charles (KC5DXQ)

Date: Thu, 22 Apr 1999 05:48:52 -0500

From: "Charles Hamel" <cdhamel@pdq.net>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [40301] SWL40+ Problems
Message-ID: <016301be8cad\$b7a49500\$9be390d1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all

I thought I had my SWL40+ working ok, untill I put in in a case!
Now I have to adjust T2 & T3 to get a decent sidetone with clicks!
after a minute the sidetone leaves and a terrible motorboating/staticky
noise takes over, then T2 & T3 need to be adjusted to get the sidetone back!

any suggestions will be appreciated!

73's
Charles

Date: Wed, 12 May 1999 15:51:13 -0700
From: Bradford D Bilbrey <bigdawg74@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [40302] Any comments on these antennas
Message-ID: <19990512.155114.12134.0.bigdawg74@juno.com>

Hello all:

Just a quick question or request for opinions on which antenna
would be best. The three being considered are as follows.

1. Triband beam 2. Two element quad 3. Six element Log Periodic

72's
Brad
KE7MU

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 May 1999 18:58:06 -0400
From: Jim Stiles <rivercity@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [40303] Spring Quarterly:
Message-ID: <4.1.19990512184506.009b4470@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

HI All:
Just got the Spring Quarterly:
This is just great.....

Thank the good Lord that I found this reflector cum Group, further that I
had enough sense to sign up..
Haven't seen anything this good since HAM RADIO Magazine went sk..

Sorry the bandwidth but I just had to say it..

72/73 Jim W2NJJ

DXCC honor roll, qrp-l 1855, QCWA

Date: Wed, 12 May 1999 18:08:44 CDT
From: James R Giammanco <n5ib@juno.com>
To: qrp-l@Lehigh.edu
Subject: [40304] fishing reel ... antenna launching
Message-ID: <19990512.180851.10191.0.N5IB@juno.com>

for all you antenna launchers out there .. just came back from the local
K-Mart. Shakespeare #SC201 spincast reel on special for \$3.99 (reg \$5.99)

...nope, don't work for 'em, just a happy K-Mart shopper...

72

Jim N5IB

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 May 1999 20:56:26 -0400
From: "Don Chisholm WX3M" <dchishol@oakland.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [40305] Re: World's Smallest WEB Server
Message-ID: <00ce01be9cdb\$6e6905e0\$2acffea9@ppp.oakland.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Impressive, and well within the philosophy of QRP.

I have a (rather "uneducated") concern that there is a modern dependence on mega computing power to process even simple contemporary tasks. It seems to me that, as computers get faster and more powerful, there is less necessity for software to be written with computation efficiency as any concern. It perpetuates hardware obsolescence and the dependency on the latest gadget from PC world to perform the same tasks one can do on a 386 computer using Arachne browser. Not as pretty-- just another branch of QRP computing.

The Stanford wearables site seems to realize that QRP computing also needs QRP software because they use a very efficient (if not flexible or powerful) operating system. The system is, perhaps to the unfamiliar, not very user friendly, but gets the job done with minimalist motivations.

Bravo!

Having been (and will continue to be) an operator at some QRO, Multi-Multi contest stations, I understand how our QRP philosophy encourages operating efficiency and a comprehension of what tools are necessary for the accomplishment of the task at hand. I feel that QRP operating can be vital in the development of on-the-air technique. (as well as technical ingenuity, antenna design, etc.)

A childhood educator might use the analogy that QRP operating provides the building blocks necessary for effective and efficient QRO operation.

whaddayathink?

don

Don Chisholm - WX3M
Oakland University - Department of Music, Theatre, and Dance
undergraduate - secondary instrumental music education
dchishol@oakland.edu
<http://www.oakland.edu/~dchishol/>

Date: Wed, 12 May 1999 20:58:23 -0400
From: Tom Palmer <n1tp@worldnet.att.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [40306] Super Sunset Pictures
Message-ID: <373A23AF.BBEF0B22@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I've been searching the net for sunset pictures.
For many really super sunset pictures check out:

<http://campus.fortunecity.com/slope/421/sunsets/>

Tom,N1TP, Naples, Florida

Date: Wed, 12 May 1999 18:57:20 -0600
From: "Rod Cerkoney" <rwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [40307] Battery Tech Info
Message-ID: <000d01be9cdb\$bf4b3320\$128611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks:

A few days back some asked for rechargeable battery info and I post the Rayovac link. While I did a little more surfin and found these:

<http://data.energizer.com/>

<http://www.duracell.com/OEM/index.html>

Each site has a wealth of information about: Batt types, charging, capacity & discharge curves, engineering drawings, batt specs...pretty much everything you might want to know about batteries.

Hope you find this info useful....

72/3 Rod, NØRC
Fort Collins, CO
arrl, qrp-l, qrp arci, fists, norcal, cqcc
da di dah

Date: Wed, 12 May 1999 21:00:07 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [40308] Wire Rope Antennas
Message-ID: <19990512.210008.-294777.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Highest gang:

well I did it.... I took down my wire yagi and modified it some
I took the dowel rods from one side and added one to the other and came
up with one dowel rod 56ft long.... (lots of hose clamps and glue).
I put a director for forty meters at one end and a reflector (for forty
) at the other end and tied the driven element (for forty) in the
center... that's 28ft spacing for each element...
and I tied the rope to the dowel rod and hauled it up into the tree...

FOR THE other ends of these elements I tied them to a piece of rope...
each 28ft apart and hauled the end of the rope with the director up into
one tree and took the end of the rope with the reflector tied to it and
hauled it up another tree and stretched it out tight....

lows and behold... the elements spread out nicely... and about 45 to
50ft off the ground.... the driven element is fed with coax....

Oh was my cajun mama happy... cause I didn't spend any moe money...

The match at the xmtr is good ... lessen 1.5 to one on the phoney band
and flat on the cw band...

As u recall, my director used to be spaced at 16ft.... it is now at 28ft
and the signals are showing up stronger on the s meter.... I'm also
making ssb qso's at the one watt level and getting 57 reports... an't
that "mazing...

I found a chart that said I should have picked up 2+ db with the wider

spacing...

all I can tell u is that the antenna sure sounds betterer than it did before...

it sure is nerve racking to watch the watt meter average only a half watt out when I'm used to seeing it average about three watts.... don't seem right...

my cajun mama says she gonna cook me some crawfish etouffe tonight and some boiled shrimp and grits for breakfast...

oh the trees were spaced soes I got the antenna pointing at arizona... or thereabouts... I'm getting out along the east coast just fine...too....

well I gonna make a contact or two....

joel kella

in maine

but thinking of dixie...

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 May 1999 19:05:29 -0700
From: Terry W Arnall <kb6ebz@juno.com>
To: qrp-1@Lehigh.edu
Subject: [40309] Re: For Sale/Trade.....and one Free
Message-ID: <19990512.190530.-194077.0.kb6ebz@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks for the honist answer. EVERYtime I get on to do code
I do SWEAT!!! I have been pushing myself by making code
tapes with increasing speed using MA.

73

Terry

>One quickie about code speed. You will NEVER improve, if you don't
>work someone who pushes you a little. You have to put some effort into
>it, and break a sweat now and then. If you are a FISTS member, get a
>code buddy, and tell
>them you want to improve. If not, find someone to rag chew with every
>day, and tell them to push you a little. You will improve, but it
>takes work.

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 May 1999 22:23:36 -0400
From: "Larry Przyborowski" <lprzybski@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [40310] Fw: MFJ - Hy-Gain
Message-ID: <01b201be9ce7\$9c206620\$d1f9accf@k3peg>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Cliff Segar <csegar@summitech.com>
To: vhf@w6yx.stanford.edu <vhf@w6yx.stanford.edu>
Date: Wednesday, May 12, 1999 1:51 PM
Subject: MFJ - Hy-Gain

>NEWS RELEASE
>
>For Immediate Release
>
>MFJ Enterprises, Inc.
>300 Industrial Park Road
>Starkville, MS 39759
>
>MFJ Enterprises, Inc. announces that it has acquired Hy-Gain Antennas,
>Towers, and Rotators for amateur radio effective Monday, May 10, 1999.
>
>Hy-Gain will remain a separate entity with separate management, employees
>and manufacturing facility in Starkville, Mississippi. The company will
>continue the entire product line that is currently being produced, plus it
>will introduce several new products. This includes two new vertical
>antennas that will be announced at the 1999 Dayton HamVention.
>
>Hy-Gain of Starkville will immediately begin selling the entire product
>through amateur radio dealers worldwide. There will be a small transition
>period as stock, parts, equipment, and production are moved to Starkville,
>Mississippi.
>
>Hy-Gain can be contacted by calling 800-647-1800 or by fax: 601-323-6551.

>Watch for more exciting Hy-Gain news through MFJ's Website:

><<http://www.mfjenterprises.com>>

>-----

>Submissions: vhf@w6yx.stanford.edu

>Subscription/removal requests: vhf-request@w6yx.stanford.edu

>Human list administrator: vhf-approval@w6yx.stanford.edu

de Larry K3PEG

Date: Wed, 12 May 1999 22:37:20 EDT

From: "Jeffrey L. L. Greer" <wd4et@juno.com>

To: qrp-l@Lehigh.EDU

Subject: [40311] Inspired to build!

Message-ID: <19990512.223723.3918.0.wd4et@juno.com>

I have been spoiled by printed circuit boards, prototyping systems and perf boards for many years. I'm not usually inclined to build a project that utilizes one of the "ugly" methods. I admit. I'm lazy.

The 2N2/40 project is simply, inspiring. I have been seduced by the creative brilliance evident in the Winter issue of QRPP. The 2N2/40 project is a page turner. I can't say enough about Jim and Paul.

I may even build two. One built strictly according to plan and one modified and tweaked.

But, I'm having trouble locating 5" X 7" copper clad circuit board. Have any of you tried Circuit Specialists, Inc. ? (www.cir.com)

Is the cyano-acrylate (Super Glue) bond for the pads reliable in the long term?

Thanks es 73, Jeff WD4ET in Jacksonville, FL

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 May 1999 09:50:48 -0500

From: "Charles Hamel" <cdhamel@pdq.net>

To: "QRP List" <qrp-l@Lehigh.EDU>

Subject: [40312] MFJ 971 ATU

Message-ID: <018701be9c86\$d4238180\$9be390d1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If anybody owns a MFJ 971 ATU could you please E-mail me?

Thanks

Date: Wed, 12 May 1999 23:00:17 -0400
From: Ed Lawson <elawson@lr.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [40313] FS: OHR 100A 40M
Message-ID: <373A4040.FF6E2F7@lr.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Selling a 40 M OHR 100A. Clean, works well, manuals,
and a ten turn pot installed. Selling because getting another
OHR rig. \$75 shipping free in CONUS.

Ed Lawson
K1VP
elawson@lr.net

Date: Thu, 13 May 1999 13:02:47 +1000
From: "Ian C. Purdie" <purdic@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [40314] Help
Message-ID: <373A40D7.134D6B7C@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys and Gals,

I run an amateur radio tutorial page. i.e. I hope I am passing on some sort of basic education to encourage youngsters and others to further their interest in electronics in general and amateur radio in particular.

I of course frequently receive email questions. Mostly these are routine but occasionally I get "curly" ones which are either beyond my expertise or area of experience. Check out my site below.

Would the group seriously mind if I posted these questions and prey upon the collective wisdom?

73's

Ian

<http://www.integritynet.com.au~purdic>

Date: Wed, 12 May 1999 22:11:25 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: "QRP-L Distribute" <qrp-l@Lehigh.EDU>
Subject: [40315] Mauritius on 20m
Message-ID: <002501be9cee\$4a0d7ce0\$b237a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

3B8FG is working QRPers on 14.010 MHz. Gave me a 559 at 10,700 miles (0252 UTC May 13, 1999).

This must be the Mauritius national calling frequency since 14.010 MHz is where I've always worked them.

73,
Steve Yates
AA5TB
Fort Worth, TX
<http://home.swbell.net/aa5tb>
aa5tb@swbell.net

Date: Wed, 12 May 1999 20:21:01 -0700
From: Jerry Parker <jparker@fix.net>
To: qrp-1@LeHigh.edu
Subject: [40316] NA5N's Desert Ratt 3 Schematic and Parts List
Message-ID: <3.0.6.32.19990512202101.00c62da0@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Here it is:

Paul Harden, NA5N's Schematic and Parts List is available off
the NorCal Page. Just hit the HamComm Link and your on your way.

<http://www.fix.net/norcal.html>

Enjoy,,,72,,,Jerry...WA6OWR...K

Date: Wed, 12 May 1999 23:23:16 -0400
From: "Hugo W. Catta" <hugo@banet.net>
To: bigdawg74@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [40317] Re: Any comments on these antennas
Message-ID: <373A45A4.83EDD697@banet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bradford D Bilbrey wrote:

> Hello all:
> Just a quick question or request for opinions on which antenna
> would be best. The three being considered are as follows.
> 1. Triband beam 2. Two element quad 3. Six element Log Periodic
>

1. If you want advertised performance, pick CW or SSB sub-band but not both.

2. No tuner needed from band edge to band edge. High efficiency all through the band. Slightly less gain than the tribander at sweet spot. Quiet. Cute. Makes a statement.

3. Great antenna if you are a SWL.

72, 73
Hugo
CX9AAK/W2

>
> 72's
> Brad
> KE7MU

Date: Wed, 12 May 1999 23:22:23 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [40318] Fw: Wire Rope Antennas
Message-ID: <19990512.232223.-297495.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

----- Forwarded message -----
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Date: Wed, 12 May 1999 21:00:07 -0400
Subject: Wire Rope Antennas
Message-ID: <19990512.210008.-294777.0.hamjoel@juno.com>

sorry for the repost but I DID NOT SEE MY ORIGINAL POST MAKE IT TO THE LIST... JOEL

Highest gang:

well I did it.... I took down my wire yagi and modified it some I took the dowel rods from one side and added one to the other and came up with one dowel rod 56ft long.... (lots of hose clamps and glue).

I put a director for forty meters at one end and a reflector (for forty

) at the other end and tied the driven element (for forty) in the center... that's 28ft spacing for each element... and I tied the rope to the dowel rod and hauled it up into the tree...

FOR THE other ends of these elements I tied them to a piece of rope... each 28ft apart and hauled the end of the rope with the director up into one tree and took the end of the rope with the reflector tied to it and hauled it up another tree and stretched it out tight....

lows and behold... the elements spread out nicely... and about 45 to 50ft off the ground..... the driven element is fed with coax....

Oh was my cajun mama happy... cause I didn't spend any moe money...

The match at the xmtr is good ... lessen 1.5 to one on the phoney band and flat on the cw band...

As u recall, my director used to be spaced at 16ft.... it is now at 28ft and the signals are showing up stronger on the s meter.... I'm also making ssb qso's at the one watt level and getting 57 reports... an't that "mazing...

I found a chart that said I should have picked up 2+ db with the wider spacing...

all I can tell u is that the antenna sure sounds betterer than it did before...

it sure is nerve racking to watch the watt meter average only a half watt out when I'm used to seeing it average about three watts.... don't seem right...

my cajun mama says she gonna cook me some crawfish etouffe tonight and some boiled shrimp and grits for breakfast...

oh the trees were spaced soes I got the antenna pointing at arizona... or thereabouts... I'm getting out along the east coast just fine...too....

well I gonna make a contact or two....

joel kella

in maine

but thinking of dixie...

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 May 1999 23:34:11 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [40319] ND QSLs All in Post
Message-ID: <199905122337_MC2-7588-F6DB@compuserve.com>
MIME-Version: 1.0

Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

Just a note to say that all QSLs have finally been completed and mailed. Sorry it took longer than expected here, but health concerns intervened. These cards were made on the first edition of QSL Maker :-). Will make them much fancier and colourful the next round.

Thanks one and all for many FB QSOs since moving here to Bismarck. Will try to QSL more quickly in the future.

P.S. Please send your cards to the address shown in my signature block, below. Some went clear to the old Rochester, MN, address and were delayed a while. Thanks.

72,
--Doc Lindsey/K0EVZ
DSBF
PO BOX 7187
Bismarck, ND 58507
70511.3041@compuserve.com

Date: Wed, 12 May 1999 10:54:11 -0500
From: "Charles Hamel" <cdhamel@pdq.net>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [40320] MFJ-971 ATU
Message-ID: <019701be9c8f\$af5210c0\$9be390d1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If any body owns a MFJ-971 please send me email!

cdhamel@pdq.net

thanks

Date: Wed, 12 May 1999 23:50:45 EDT
From: N7YA@aol.com
To: qrp-1@lehigh.edu
Subject: [40321] Re: Indoor Antennas
Message-ID: <6d9015ee.246ba615@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 4/27/99 10:20:19 AM Pacific Daylight Time,
drcase@iastate.edu writes:

<< I would like to hear from other QRP'ers who, due to antenna restrictions,
are limited to using indoor antennas. >>

Hi Dan, I am limited to indoor antenna use as well. i use a balanced
horizontal loop strung around my den above the shack. it does quite well, i
dont work everything i hear but thats the trade. I do pretty good though
considering.

I did get T22KJ the other night for a new one though and have 93 countries,
all 50 states, 24 zones and all continents with this set-up on CW only. its
no surprise that you have end up logging most of the stations you call....a
little determination and creativity with your antenna situation can give you
a good, very operable little station! (hmm, i sounded like a ham version of
Dr. Seuss for a second there).

I havent been doing too much DXing or computer work due to my schedual
lately (11-12 hour days, sometimes 7 days a week), so it leaves very little
time for much else other than kissing the family goodnight, eating dinner
then crashing.

i am trying to get back into the swing of things and would like to get back
on the air some more. so who else out there has an indoor antenna? nice to
be back. :-)

73...Adam, N7YA

Date: Wed, 12 May 1999 22:13:05 -0500
From: applitech@mcg.net (Claton Cadmus)
To: <bigdawg74@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [40322] Re: Any comments on these antennas
Message-ID: <00ca01be9cf5\$2d858c00\$a10a5e2c@groucho>

Brad KE7MU writes:

> Just a quick question or request for opinions on which antenna
> would be best. The three being considered are as follows.
> 1. Triband beam 2. Two element quad 3. Six element Log Periodic

I'm not trying to be smart here, but they are all good choices. The question is really what do you want the antenna to do for you? Without such information it is impossible to help you. What bands do you wish to cover? CW or Phone or both? How high can you put the antenna in the air? Do you have a rotor and what kind is it? Is money no object or do you have a budget?

73 de Cla KA0GKC

Date: Wed, 12 May 1999 22:17:54 -0600
From: "Rod Cerkoney" <rwc@frii.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [40323] VERY compact XCVR design requirement
Message-ID: <005301be9cf7\$95aab380\$498611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks:

A non-list member posted this to our local ARES email reflector. Thought I'd offer it up here for some discussion:

Is anyone interested in designing a NEW qrp cw rig?

I have been looking and building kits trying to find a rig that does not exist yet, at least of the ones I have seen and tried.

This rig must:

- operate on 9 volts
- be WATER PROOF
- output 1 watt
- be smaller than an altoids can
- dropped tested from....say.... 6 ft, and work fine after the test

would be nice if:

multi frequency, 2 or 3 (but locked to each freq)

had a built-in keyer, not the paddles, that is another project for someone who can machine a new design out.

My questions & comments:

In genral probably doable with industrial strength parts & maybe SMD's--consider the new Yaesu vx-5r that little pup can put out 5 watts on 6 & 2.

Anyway: 9V? Why 9 volts? If it is to use those 9v transistor radio batteries; operating time would be quite limited. Are there other 9V batts available with higher capacity?

WATERPROOF: This might be tough, ant, key & earphone jacks; control shaft bearings all pose a challenge.

1 WATT: With 9V in? hmmmmm? figure 50% pwr conversion factor to account for support circuitry, and applying ohms law: 222mA from the supply, this could work.

SMALLER THAN AN ALTOIDS CAN AND DROPPED FROM 6FT: For single Freq. or VXO rig size maybe. Drop test torroid & xtals might be a problem.

Overall with industrial or mil components a combo of FUNK-AMATEUR-PA, 40-9er and Fireball technology this could be an interesting project.

What you all think?

72/3 Rod, NØRC

Fort Collins, CO

arrl, qrp-l, qrp arco, fists, norcal, cqo

da di dah

Date: Thu, 13 May 1999 00:27:16 -0400

From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>

To: <qrp-L@LeHigh.edu>

Subject: [40324] RE: Sony 2010 RX for QRP station

Message-ID: <002e01be9cf8\$e347ab60\$04000a0a@inforhc>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The 2SK125/2SK152 RF amplifier stage is the cause of 99 %
of the problems related to low sensitivity in this radios.
Thanks to the advise of several QRP-L members, I was able
to bring the receiver not only back into service, but I am sure
that it is now even more sensitive.

Used a 2N4416A to replace the Japanese 2SK FET.

Also added the following components

1. 47 K 1 W resistor from center of antenna connectort to receiver's
common (ground) To discharge static built-up when
weather is very dry and windy... I presume that the receiver's
common will be connected to a ground !
2. 4 diodes , connected in two sets of back to back ... at the input
of the receiver, diodes are similar to 1N4148... They should
protect the front end FET from very strong signals from nearby
transmitters.

Another FET that looks good in Paul's book data is 2SK330

with 10000 umhos... but that one I could not find !

Several other similar radios that have lost sensitivity are
affected by the same problem... a DEAD (either shorted,, or open)
FET at the input...

External diodes for limiting high RF are better than those build
in into MOSFETS... !!!

Arnie Coro C02KK
e-mail:arnie@radiohc.org
e-mail:inforhc@mail.infocom.etecsa.cu
Postal address:
Prof. Arnaldo Coro Antich
La Torre no.127 entre 35 y 37
Nuevo Vedado, Plaza
Ciudad Habana , 10600
CUBA

Date: Wed, 12 May 1999 23:31:01 -0500
From: Glen Reid <k5fx@flash.net>
To: QRP-l <qrp-l@lehigh.edu>
Subject: [40325] Junk CB part needed

Message-ID: <373A5585.7CA11266@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

I am in need of a modulation transformer from a Uniden CB. The perfect part is marked "TF-177", but others might work.

Anybody got a Uniden CB unit in the junk box?

tnx es 73,

gr
--
GLEN REID
K5FX/M BGF

Austin...in the beautiful hill country of TEXAS...

Austin QRP Club # Pi

Email: k5fx@flash.net

Date: Wed, 12 May 1999 23:38:03 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: hugo@banet.net
Subject: [40326] Re: Any comments on these antennas
Message-ID: <373A572B.D9D16103@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hugo and Brad, I would add a couple more thoughts about these antennas.

My first impression was that for most practical purposes, all three should provide about the same performance in terms of gain, F/B, etc. Not exactly, of course, but in the ballpark.

The tribander is probably the most vigorous in terms of staying up in the wx. The quad is worst in this regard. The LP depends upon who made it and how. But, it is likely to be considerably heavier and larger than either of the others.

It has long been found that in most cases the three-element tribander and the 2-element quad are on the same page. Most LPs provide the performance of a two-element yagi on any frequency within their range.

The tribander and LP cover three bands while the quad is limited to one unless it has multiple loops, etc. for additional bands.

My preference? I would stick with the tribander for ruggedness and frequency coverage. You should see an honest 4-5 db gain on most bands within its range and a usable F/B ratio. Any of them must be erected high enough or all bets are off. At least 1/2-wavelength on the lowest frequency band and preferably much more. "Conventional wisdom" holds that the quad can be mounted lower than a yagi for the same performance, but I doubt that really holds up under rigorous examination.

72/73, George

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

Date: Thu, 13 May 1999 00:36:20 -0400
From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etcusa.cu>
To: <qrp-L@LeHigh.edu>
Subject: [40327] RE: NA5N's New regenerative on the WWW
Message-ID: <003b01be9cfa\$27c791a0\$04000a0a@inforhc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello fellow QRP list members

Can someone download the info related to the NA5N regenerative at the NORCAL webpage and then send it to me as an attachment... NOW... before sending it, please send an e-mail to coordinate.. Last time I requested something similar.... well , my e-mail mailbox got saturated !!! By the way, OScar C020J a VHF QRP enthusiast has worked several stations on 2 meters QRP using PSK31 mode at 3 watts with great success... He is monitoring 50.190 kHz, and tomorrow we plan to test between us on 10 meters, as I think that my venerable 6 meter radio (about 35 years old) will not have enough frequency stability to allow me to work on PSK31 mode ... but my little HTX100 will surely be stable enough after about 1/2 hour of operating .

73 to all and be ready for possible poor propagation coming up
Arnie Coro C02KK

e-mail:arnie@radiohc.org
e-mail:inforhc@mail.infocom.etecsa.cu
Postal address:
Prof. Arnaldo Coro Antich
La Torre no.127 entre 35 y 37
Nuevo Vedado, Plaza
Ciudad Habana , 10600
CUBA

Date: Wed, 12 May 1999 22:47:11 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: "Jeffrey L. L. Greer" <wd4et@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [40328] Re: Inspired to build!
Message-ID: <Pine.SUN.4.10.9905122216570.8833-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 12 May 1999, Jeffrey L. L. Greer wrote:

>
> The 2N2/40 project is simply, inspiring. I have been seduced by the
> creative brilliance evident in the Winter issue of QRPP.

We were hoping it would turn on quite a few, but seduction never
crossed our minds :-)

> I may even build two. One built strictly according to plan and one
> modified and tweaked.

The philosophy of the 2N2/40 article was to document it as carefully as possible so even a first time "build it from scratch" builder might gain the confidence to give it a try. We're confident that the success rate should be quite high, and this is exactly why it was so useful to have Preston Douglas build one. While Preston is an accomplished builder, you wouldn't believe what he went on to build his with -- mostly just the schematic before any of the assembly drawings were done. And yet, his rig was very repeatable in performance to Jim's original. Additionally, Preston also found a few drawing errors and a few suggestions, such as a turns ratio change on a toroid that increased the gain of the IF amplifier. It's not bug free, but we think it's close.

One of the advantages of Jim's design is how easy it would be to modify for those so inclined. Each stage is transformer coupled, which isolates

one stage from the next quite well. This means if you decide to roll your own favorite flavor of RF, IF or Audio amplifier, different mixer schemes, add a CW audio filter, etc., it should be quite easy to do by simply taking note of the input and output impedances. Another thing that should be easy to do is add a huskier PA if you choose to make one using an MRF475, 2SC299, IRF510, etc. from another design.

We've been wanting to do a project like this in QRPP for some time, and when we saw Jim's 2N2/40, we knew it was the one. Build it "as is" or tinker with it to your hearts content.

I've had Jim's 2N2/40 in my hands and on the air. And I want to stress what a good performing rig this is. Not only easy and fun to build, but with no active mixers (like the NE602), combined with the solid ground plane of the copper clad board, you will be amazed at how quiet the rig is ... that is, an excellent signal-to-noise ratio you've forgotten about with NE602 rigs. And his audio amplifier with discrete transistors keeps it quiet right up to the speaker/phones. I'm sure Preston will testify to this fact as well. We think you will be impressed with the performance as well, giving you the right to be very proud of building it and using it on the air.

> But, I'm having trouble locating 5" X 7" copper clad circuit board. Have
> any of you tried Circuit Specialists, Inc. ? (www.cir.com)

Most Radio Shacks carry various sizes of single and double sided copper clad (admittedly, a bit pricer than other sources). For the 5x7 board and the pads, single sided board will work fine, as you're only using the top surface for the ground connections and only the top surface of the "pads" for the soldering point.

> Is the cyano-acrylate (Super Glue) bond for the pads reliable in the long
> term?

I have started my dual-band 2N2 (20 and 40M) based on Jim's design. I also recently built a simple superhet shortwave receiver (not a regen) I'm prototyping with the pad "manhattan" technique. I have not yet experienced any of the pads "falling off" or coming loose. The super glue works very well, yet you can snap off the pad with needle nose pliers if you need. Another thing you will find is when you build a section, the strength of the soldering and the connecting leads tends to be pretty rigid in itself, holding everything together quite firm. If a pad should come loose, the leads soldered to it will keep it from going too far! It's a far better method than you think, and you become a believer once you start using it. The hardest part is learning how to keep the super glue off your fingers but you get that down with a little experience! I'd recommend building some really stupid circuit or a "do-nothing" circuit with junk parts first (or a regen?) to gain a

little experience if you are concerned about it.

My learning-curve experience is you are in the pro-class by about the tenth pad you glue down -hi.

Thanks to everyone for all the nice comments on the 2N2/40 issue, both privately and on qrp-l. It **is** appreciated by all of us involved.

72, Paul NA5N

Date: Wed, 12 May 1999 22:14:49 -0700
From: Jim <w7ls@blarg.net>
To: inforhc@mail.infocom.etecsa.cu, qrp-l@lehigh.edu
Subject: [40329] Re: Sony 2010 RX for QRP station
Message-ID: <373A5FC9.95DC4315@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The 2010 has a big reputation for poor reception due to static damage to the front end. There is a standard fix for it. I don't know what it is, but essentially, it is a pair of diodes across the front end. Jim W7LS

"Prof.Arnaldo Coro Antich" wrote:

> The 2SK125/2SK152 RF amplifier stage is the cause of 99 %
> of the problems related to low sensitivity in this radios.
> Thanks to the advise of several QRP-L members, I was able
> to bring the receiver not only back into service, but I am sure
> that it is now even more sensitive.
> Used a 2N4416A to replace the Japanese 2SK FET.
> Also added the following components
> 1. 47 K 1 W resistor from center of antenna connectort to receiver's
> common (ground) To discharge static built-up when
> weather is very dry and windy... I presume that the receiver's
> common will be connected to a ground !
> 2. 4 diodes , connected in two sets of back to back ... at the input
> of the receiver, diodes are similar to 1N4148... They should
> protect the front end FET from very strong signals from nearby
> transmitters.
> Another FET that looks good in Paul's book data is 2SK330
> with 10000 umhos... but that one I could not find !
> Several other similar radios that have lost sensitivity are

> affected by the same problem... a DEAD (either shorted,, or open)
> FET at the input...
> External diodes for limiting high RF are better than those build
> in into MOSFETS... !!!
>
> Arnie Coro C02KK
> e-mail:arnie@radiohc.org
> e-mail:inforhc@mail.infocom.etecsa.cu
> Postal address:
> Prof. Arnaldo Coro Antich
> La Torre no.127 entre 35 y 37
> Nuevo Vedado, Plaza
> Ciudad Habana , 10600
> CUBA

Date: Thu, 13 May 1999 02:13:40 EDT
From: PGSPersEng@aol.com
To: qrp-l@lehigh.edu
Subject: [40330] 2N2/40 Question
Message-ID: <2b0463e6.246bc794@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

I've decided to take on the 2N2/40 rig as described in the latest QRPP.
Beyond just building it, though, I hope to take a component-by-component
analysis just as I did with the Elmer 101 rig. I also hope to have a local
ham, Alex AI2Q, join me in this endeavor.

So I'm starting with Part 1, the TR switch. I understand its principle of
operation, but I don't see how to come up with the resistor values that bias
the transistors into saturation. Can I analyze this section standalone? Or do
I also need to know the transmit current draw and receive current draw in
order to set the bias resistors? If so, what are the values of Tx current and
Rx current?

Thanks,
Paul, AA1MI
Rye, NH

Date: Thu, 13 May 1999 00:44:00 -0700
From: Jim <w7ls@blarg.net>
To: qrp-1@lehigh.edu
Subject: [40331] FS: HTX-100 10 meter ssb/cw transceiver
Message-ID: <373A82C0.7B461A96@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi. I have a spare Radio Shack HTX-100 transceiver. It is in great shape. Works fine. It covers all of the 10 meter band. Modes are sideband and cw. Should be a lot of fun, now that 10 is opening up. \$150 and I'll pay for shipping to lower 48.

Jim W7LS

Date: Thu, 13 May 1999 01:56:46 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-1@lehigh.edu
Subject: [40332] Da Desert Ratt stuff
Message-ID: <Pine.SUN.4.10.9905130139061.9853-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
If you're not interested in regens, exit now.

```
=====
|  REALLY EXIT REGENS?  |
|  -----  -----  |
|  | YES |   | NO |   |
|  -----  -----  |
=====
```

After spending more time on the keyboard than I want to admit, I think the schematic and construction notes, all in ASCII format, are ready to post. I tried to keep everything within 70 columns so hopefully the schematic remains formatted on about anyones terminal or mail utility. I'm not the swiftest guy when it comes to all this protocol transfer file regurgitating standards, so if you experience problems with the schematic all barfed up, let me know.

I placed an order tonight with Mouser for some parts, namely their #24TR222 two-section variable poly-cap. Shortly after I get the stuff in, I will be building another Desert Ratt 2N2/40 manhattan style with some specific coil/capacitor combinations for the shortwave or ham bands of your choice (to be posted later). I will also illustrate how I did my layout, akin to the 2N2/40 style, and get the schematic and assembly drawing(s) on a website or two, plus Jerry Parker has offered to put it on the NorCal website as well. It will probably appear in the summer QRPp also. So hopefully the two files to follow by separate posts to QRP-L will suffice for now. Whether I can get all this done before HamCom is yet to be seen, but it will be of that time frame.

They will be posted as:

DESERT RATT PART I - The schematic diagrams

DESERT RATT PART II - Parts list, construction notes & operation

72, Paul NA5N

Date: Thu, 13 May 1999 02:01:42 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [40333] DESERT RATT PART I
Message-ID: <Pine.SUN.4.10.9905130156510.9853-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

DESERT RATT 3 REGENERATIVE SHORT WAVE RECEIVER

[NA5N]

Construction information for this regen receiver will be in two parts (files). The first part (this one) is primarily the schematic diagram in ascii characters. It looks slightly better when printed than on the screen! The second part contains the Parts List, Construction Notes Operation. It's a relatively easy radio receiver to build and most component values are not critical. It's a fun little radio to build.

Please report any errors or difficulties to me, and I will correct and repost.

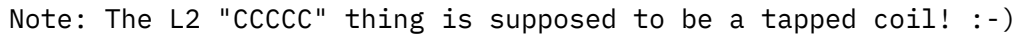
Have fun and regen.

72, Paul NA5N

=====

DESERT RATT SCHEMATIC * RF & REGEN STAGES [NA5N]

SHT. 1 of 2

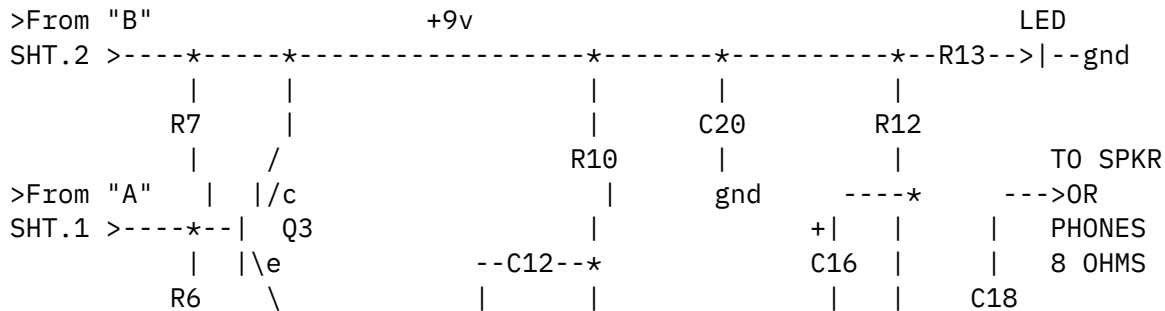


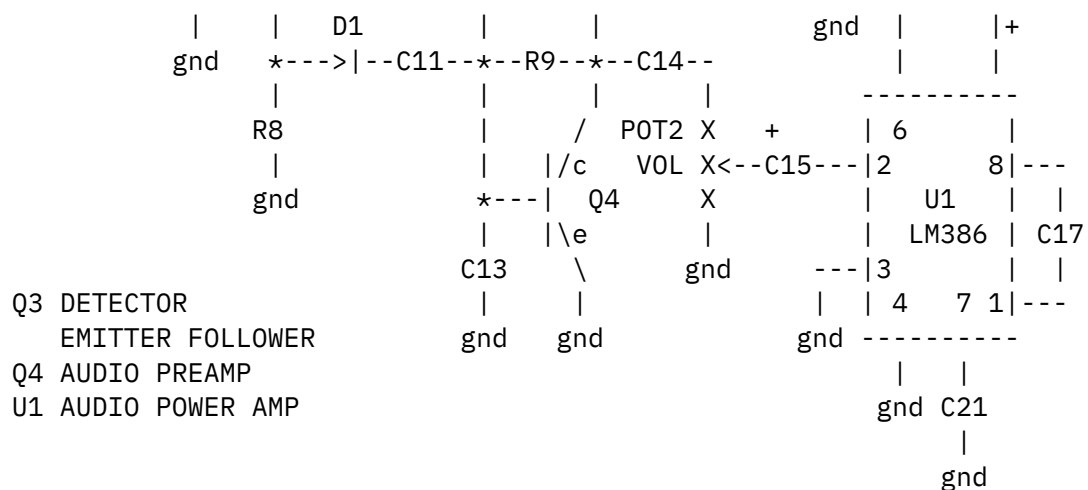
=====

=====

DESERT RATT 3 SCHEMATIC * DETECTOR & AUDIO STAGES [NA5N]

SHT. 2 of 2





Note: LED and R13 is optional

<End of Part I>

Date: Thu, 13 May 1999 02:03:23 -0600 (MDT)
 From: "Paul Harden, NA5N" <na5n@rt66.com>
 To: qrp-l@lehigh.edu
 Subject: [40334] DESERT RATT PART II
 Message-ID: <Pine.SUN.4.10.9905130201520.9853-1000000@shell.rt66.com>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII

DESERT RATT REGENERATIVE SHORT WAVE RECEIVER - PART II [NA5N]

*** PARTS LIST ***

C1 100pF fixed or trimmer	R1 470K (100K-1M OK, sets bias)
C2 100pF fixed	R2 2K
C3 51pF (10-100pF OK)	R3
C4 (Not used)	R4 100K
C5 Tuning cap 6-141pF	R5 150K
Mouse #24TR222	R6 50K (R6-R7 about same value
C6 .001uF	R7 50K from 33K-100K OK)
C7 .001uF	R9 470K (100-470K OK, sets bias)
C8 .001uF	R10 2K (1.2-2.2K OK, sets gain)
C9 .01uF	R11 (Not used)
C10 10uF (2.2 - 22uF OK)	R12 39 ohms (22-100 OK)

C11	.01uF	R13	750 ohms (Optional with LED)
C12	.001uF		
C13	.01uF	POT1	100K (50-250K OK) REGEN CONTROL
C14	.1uF	POT2	5K (1-20K OK) AUDIO GAIN
C15	2.2uF (1.0-10uF OK)		
C16	10uF (10uF or larger OK)		
C17	10uF (1-10uF OK, sets gain)		
C18	100uF (10-220uF OK)		
C19	.01uF (across speaker leads)		
C20	10uF (10-100uF OK)		

SEMICONDUCTORS

Q1-Q4 Any general purpose NPN, 2N2222, 2N3904, 2N4401, etc.

D1 Detector diode, 1N914/1N4148 or equiv.

(1N34, etc. germanium diode works best)

D2-D4 Any diode OK for 0.7V drop each (1N914, 1N4001, etc.)

Transistors can be used by tying emitter-base together.

U1 LM386 8-pin Audio Amplifier IC

LED Any old LED (Optional - omit to prolong battery life)

=====

CONSTRUCTION NOTES:

1. All NPN transistors are general purpose 2N2222, 2N3904, or equiv.
2. Wind L3 on 5/8 to 1-inch form (35mm film container is 1.25" dia.)
As a starting point for C5=6-141pF, wind 22-turns total on a 35-mm film container, tapped at 5-turns for C9 (17T from Q2 collector to C9 tap) for tuning range about 5.5-12 MHz.
3. C5 is mini poly variable cap, or as salvaged from AM-FM radio.
Any old metal open-air variable 50-300pF range will work.
4. Alkaline 9V battery (950mAH) easily lasts 12-15 hours. A 6-12V DC wall adapter can also be used.
5. The LM386 will easily drive a small speaker.
6. Most parts available from Mouser, DigiKey, Radio Shack, etc.
(Probably from your junk box)

This is a deluxe regen receiver circuit based around the Kitchen N1TEV regen stage. My Desert Ratt 3 has a sensitivity of about -90dBm, sufficient to receive a host of international SW broadcast stations. This regen receiver was designed with a "soft" regeneration action to make it more suitable for AM detection, although it will detect and heterodyne with CW and SSB signals as well. A -60dBm RF input (equiv. to a strong station, such as the BBC, Radio Havana Cuba, WWCR, etc.) produces about 20mV of audio at Q4 collector, sufficient for full speaker drive from the LM386 for "easy listening" with a 20-30 foot wire antenna.

Most component values are not critical; use the closest value you have. The biggest trick is setting the desired frequency range for the variable capacitor you are using. This entails winding L3 with different turns to get different frequency ranges. Use the equation for single-layer coils and for resonant frequency to guess what your tuning range will be.

Some specific examples of different coil forms with the Mouser 24TR222 variable cap will be presented in a separate post to switch between the two sections (oscillator and antenna portions of C5) to cover the 6MHz SW band in one switch setting, the 9.5-10MHz band in the other switch settings, in addition to the amateur bands.

A regen radio is ideal for building it "ugly." In fact, the uglier it is, the cuter it is! My only recommendation is to NOT enclose it in an aluminum or steel enclosure as this can lower the Q of L3 and keep it from oscillating (no regeneration). It works far better to keep it "open" or build it in a wooden or plastic enclosure.

=====

OPERATION:

A regen receiver does NOT act like a superhet receiver!!! It is a "2-handed" operation to properly tune in a station and piddle with the regen control for the proper gain and audio quality. But this exercise gives a regen a sound of it's own and a romance of it's own.

To tune in a station, advance the regen control until it breaks into oscillation, which will be a sudden loud "hiss" to an outright "squeel." Then back off to just before the point of oscillation. This is the point of maximum gain (for which a voltage gain over 100,000 is not unusual). Now tune in a station. You will have to readjust the regen control as you move the frequency to keep it at the high gain point. Once a station is tuned in, it will take a little piddling to adjust the regen just right for good audio quality, which will "pull" the frequency, meaning fine movement of the tune control will have to be made also. Oh yeah, and with your third hand, adjust the audio volume as the station tuning and regen dwells in! Once properly adjusted, most stations should have plenty of gain and with quite good fidelity.

Have fun.

72, Paul NA5N
Email: NA5N@Rt66.com

<End Part II>

Date: Thu, 13 May 1999 09:58:40 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: <na5n@rt66.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [40335] Re: DESERT RATT (ascii drawing)
Message-ID: <007101be9d1e\$e8d4ea40\$25feabc3@p75>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If like me you are running Outlook Express, you may have got what looks like an unholy mess. That's not Paul's fault, it's the default font I guess, and there is a way round it. Left click and drag your cursor over all the text and right click and copy. Then load Notepad and paste in the clipboard contents. All the spacings that Paul worked hard to put in are now back. You may have to reduce (as I did) the margin size as the line length is a bit long. I reduced mine to 1mm.

I have noticed some differences between this version and the WORD file that Doug was sending out. For instance, in Doug's version C1 goes to C2 then onto the base of Q1. On the ASCII version, there is also an inductor (L1) at the junction of these two capacitors going to deck. There are other differences. So is there two RATT designs? Perhaps Paul can comment.

72
Tony - G4WIF/K4WIF

Date: Thu, 13 May 1999 06:19:18 -0400
From: Bill Cotter <bcotter@pop.uky.edu>
To: qrp-1@Lehigh.EDU
Subject: [40336] FS: HP-5314A small Counter/timer
Message-ID: <3.0.5.32.19990513061918.009de370@pop.uky.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Test Equipment For Sale

HP-5314A 100mHz Universal Frequency Counter/Timer
excellent performance and HP quality. Functionality
includes 100 MHz frequency range, period, 100 ns time
interval resolution, ratio, and totalize measurements.

Easy-to-use front panel display, control buttons,
functions, and reliable measurement. The small, light
weight and compact size makes the HP 5314A well suited
for field and portable applications. Excellent condition
\$125 shipped CONUS.

Thanks es 73 Bill N4ALG
bcotter@pop.uky.edu

Bill Cotter, N4ALG E-mail: bcotter@pop.uky.edu
173 Carolyn Lane Home: (606) 887-5563,2402
Nicholasville, KY 40356-9340 Work: (606) 323-6474

ARRL ARCI #9878 QRP1 #1646 QCWA #29393 FISTS #4535

Date: Thu, 13 May 1999 06:56:08 EDT
From: AE2T@cs.com
To: qrp-1@lehigh.edu
Subject: [40337] Arrived at Dayton - FDIM
Message-ID: <8a59572a.246c09c8@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just got in to the Days Inn South for FDIM. Glad to find the phones set up
for a modem connection!

It's late, so I haven't hob-knobbed around yet, but a lot of callsigns and
QSL cards at the doors! Will see everyone bright and early in the morning.

Looking forward to a great FD"IM and Hamvention.

72,

A1 AE2T

Date: Thu, 13 May 1999 07:14:59 -0500
From: sda <sda@bellsouth.net>
To: qrp-1@Lehigh.EDU

Cc: radios@elecraft.com
Subject: [40338] Elecraft K2 shipping question
Message-ID: <199905131204.IAA24214@mail4.lig.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks:

I should probably ask this in private email to Elecraft, but I figured I would ask it here, as I am thinking others may have similar desires/concerns.

I am on the back order list to receive a K2, and know they are due to be shipping soon. It's been a tough wait! Question is: is it possible to step up the shipping method to Fed-Ex next day air? I have some concern about the reliability of priority mail, and would be willing to pay extra to get Fed-Ex. Not only that, I want to be the first kid on my block to get his K2!

72

Todd Atkins, K4MSW
Baton Rouge, Louisiana

<http://www.qsl.net/k4msw>

Date: Thu, 13 May 1999 06:44:03 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: wd4et@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [40339] Re: Inspired to build!
Message-ID: <373AC913.EB25F3B8@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jeffrey L. L. Greer wrote:

> But, I'm having trouble locating 5" X 7" copper clad circuit board. Have

> any of you tried Circuit Specialists, Inc. ? (www.cir.com)

The best prices I have found for copper clad are at Electronic Goldmine, www.goldmine-elec.com. They do not have anything exactly 5 X 7, but I have bought several of there 6 X 9 double-sided sheets, part no. G8314, for \$1.50 each. Quality is excellent. Electronic Goldmine must be a well secret. It is seldom mentioned on this site. It is a hombrewer's paradise! Check it out!

Don't work for 'em--just like their stuff!

Bruce kk7zz

Date: Thu, 13 May 1999 07:05:10 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: na5n@rt66.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [40340] Re: Da Desert Ratt stuff
Message-ID: <373ACE06.158A3E9@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A variable poly-cap virtually identical to the Mouser part can be found at www.goldmine-elec.com for \$.99 ea, 10 for \$6.00, or 100 for \$45.00! I purchased ten of these. They work just fine. A 1/4" shaft can easily be attached using a M2.5 X 16 metric screw and a 1/4" diameter X 1/2 " nylon spacer. If any are interested in sources for cheap metric screws, or know of a good source, please let me know. I have found one.

Bruce kk7zz

Paul Harden, NA5N wrote:

> I placed an order tonight with Mouser for some parts, namely their
> #24TR222 two-section variable poly-cap.

Date: Thu, 13 May 1999 09:35:08 -0400
From: Todd Nichols <nichols@rtp.ericsson.se>
To: sda <sda@bellsouth.net>
Cc: qrp-l@Lehigh.EDU
Subject: [40341] Re: Question: 80M KniGHTSMiTe + SMT TiCK

Message-ID: <373AD50C.205E76AA@rtp.ericsson.se>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

sda <sda@bellsouth.net> wrote:

>The question is, is there a "safe" or feasible place on
>the SMiTe transceiver board to draw +3 to 5 VDC to power
>the keyer, or will I have to use a separate battery?

Todd (nice name :-), everything on the SMiTe runs off of the main Vcc rail, which is whatever you are powering the rig with (prob. 9 VDC). Look down on the board with the crystal to your left; the trace that runs across the left and top sides of the board is the positive rail. The trace that runs across the right and bottom of the board is ground. You can solder small gauge wires to those traces and then regulate down. There is no lower voltage available on the SMiTe.

You have to supply a regulator, but that's less room and less inconvenience than another battery!

Todd

--

Todd Nichols KB0HQU Ericsson Inc. (919) 472-7590
nichols@rtp.ericsson.se Research Triangle Park, NC

Date: Thu, 13 May 1999 09:42:29 EDT
From: Richard Rood <fcs@juno.com>
To: qrp-l@lehigh.edu
Subject: [40342] Re: SWL40+ Problems
Message-ID: <19990513.094129.5063.4.fcs@juno.com>

Charles,

The first thing I would look at, are the solder connections. Are they bright and shiny? Your problem sounds like an intermittent connection somewhere. Touch any suspicious looking solder connection with a hot iron. As another member of the list would say "melt solder." I would add - carefully.

72

Dick, W2SCF, QRP-L 1613

On Thu, 22 Apr 1999 05:48:52 -0500 "Charles Hamel" <cdhamel@pdq.net>
writes:

>Hi all

>

>I thought I had my SWL40+ working ok, untill I put in in a case!

>Now I have to adjust T2 & T3 to get a decent sidetone with clicks!

>after a minute the sidetone leaves and a terrible

>motorboating/staticky

>noise takes over, then T2 & T3 need to be adjusted to get the sidetone

>back!

>

>any suggestions will be appreciated!

>

>73's

>Charles

>

>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 May 1999 09:04:15 -0500

From: Bcieslak@ra.rockwell.com

To: qrp-l@lehigh.edu

Subject: [40343] NQ9RP at Dayton...

Message-ID: <86256770.004D4DB0.00@ramilwsmt01.ra.rockwell.com>

Mime-Version: 1.0

Content-type: text/plain; charset=us-ascii

Content-Disposition: inline

Make sure you say HI to Jerry, N9AW and Rick, NK9G if you see them walking
around Dayton.

Jerry is the president and Rick this the secretary-treasurer of the QRP
Cheeseheads ARC. They both left yesterday

and we got the new callsign today so they'll be just as surprised as the rest of
the world when you tell them.

I hear they will be hanging around the QRP technical forum.

72 from AE9K

stuck at home again!!!

Stay tuned for news about an inaugural operating event coming to a radio near you.

Date: Thu, 13 May 1999 09:11:27 -0500
From: Clifton W Sikes <ab5uacw@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [40344] FS items all promised
Message-ID: <19990513.091128.6646.11.ab5uacw@juno.com>

Folks,

Thanks for the response. All of the items are spoken for. If anything falls through,
I'll re-post. Now, let's build a 2n2222 rig ;-)

72,

Clif AB5UA

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 May 1999 09:22:18 -0400
From: "Stephen D. Cohen" <scohen@xps.xybion.com>
To: qrp-1@Lehigh.EDU
Subject: [40345] Re: More fun with a sound card
Message-ID: <199905131415.KAA09642@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

In Yesterday's Digest, Laura Halliday wrote:

> It's getting steadily easier to argue that external digital boxes are
> obsolete. Even a crummy sound card can record all the information
> there is to record in a communications-grade audio signal. Extracting

> the message in a timely manner is then just a matter of enough compute
> power, which is a non-issue nowadays.

I've never understood why there were a discrete markets for
audio DSP boxes and digital mode boxes. Why don't the audio
DSP box folks simply add an RS-232 port and some software...
Viola! A DSP audio processing box / DSP digital modem for all of
your favorite modes in one small(ish) box.

The RS-232 port could also be used for software upgrades.
The box manufacturers could probably charge a ham \$25 every
year for the latest and greatest software. How far behind could a
software development kit be so that the average DSP aware ham
could design his own filters and modems? Sounds like nerdvana to
me!

Steve

Steve Cohen, N3OIE
3168 Sandy Ridge Drive
Clearwater, FLA 33761

Date: Thu, 13 May 1999 10:33:40 -0400
From: elawson@lr.net (Ed Lawson)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [40346] Re: FS OHR 100A spoken for
Message-ID: <19990513142656.AAA22350@office4.office.new>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have received offers on the OHR 100A and have responed privately
to the first two in time. If they fall through I will repost.
Thanks to all who responded.

Ed Lawson

Date: Thu, 13 May 1999 09:41:02 -0500

From: Adam Israel <adam@battleaxe.net>
To: qrp-l@Lehigh.EDU
Subject: [40347] Kenwood Tm 261A - Anyone else use this rig?
Message-ID: <3.0.6.32.19990513094102.008ed510@mail.battleaxe.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi All,

First off, thanks to those that answered my previous questions. I feel very fortunate to have found this valuable resource!

I am using the Kenwood TM 261A mobile rig. (Bumps down to 5W, so technically could be considered qrp). I am trying to find out more information about the rig. It runs very good, but I want to expand what I can do with it. For example, I know it can do packet, but HOW it can do packet I have no idea. Sorry if this is a bit off-topic.

73,

Adam Israel
KB9RKO

Date: Thu, 13 May 1999 07:41:15 -0700 (PDT)
From: Ron Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [40348] FS: Last Call...
Message-ID: <Pine.SOL.3.96.990513073533.685C-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I still have the following radio for sale:

FT-101-EE 160, 80, 40, 20, 15, 11 and 10 meters
12 VDC mobile power cable
mic
Original manual
Some Fox Tango news letters \$295

FV-101 Matching external VFO \$135

Matching external speaker \$55

Whole package is \$350 + shipping

I used this QRP for several years. It has all the
Fox Tango mods and CW filter installed. WARC band
kits are available from INRAD. This is a real classic
rig and is in very good shape. I'd give it a 9.5 out
of 10. I'll also include a little MFJ audio filter!

If no takers here I'll put it over on EBay and see
what happens there.

Thanks for the B/W.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Thu, 13 May 1999 11:00:34 -0400
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: <qrp-l@lehigh.edu>
Subject: [40349] MFJ 9420 20 meter SSB/CW rig for sale
Message-ID: <199905131501.LAA47778@pimout1-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jeff and gang,

FYI you can turn down the power on this and the 9440 SSB rigs. Adjust ALC
trim pot (I think it's R61, from memory...) and you can limit the output.
I did this for the November Sweepstakes.

72 Kevin N2TO
Brooklyn, NYC
kfglynn@prodigy.net

Date: Thu, 13 May 1999 08:10:51 -0700

From: "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
To: <g4wif@btinternet.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [40350] Re: DESERT RATT (ascii drawing)
Message-ID: <199905131505.IAA08456@newspaper.cwi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Or you can set the default font in Outlook Express to "Courier New" and be done with it. The advantage is that all posts will now look correct including all those cool signature lines etc. I gave up with non-proportional fonts for email a while back and just stick with Courier.

BTW, the Desert Ratt schematics looked great!

72,73
Barry AD6HR

> From: Tony Fishpool <g4wif@btinternet.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Re: DESERT RATT (ascii drawing)
> Date: Thursday, May 13, 1999 1:58 AM
>
> If like me you are running Outlook Express, you may have got what looks like
> an unholy mess. That's not Paul's fault, it's the default font I guess, and
> there is a way round it. Left click and drag your cursor over all the text
> and right click and copy. Then load Notepad and paste in the clipboard contents. All the spacings that Paul worked hard to put in are now back. You
> may have to reduce (as I did) the margin size as the line length is a bit
> long. I reduced mine to 1mm.
>

Date: Thu, 13 May 1999 09:07:08 -0600
From: Larry East <wlhue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [40351] RE: RS Switching PS

Message-ID: <3.0.3.32.19990513090708.0090ee40@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From a recent post:
>I have access to an assortment of surplus 1206 resistors, and can
>probably (no promises, I couldn't find 62 ohms yesterday) send
>you a couple of surface mount resistors to replace that bulky trimpot.

I used a "low profile" 0.25-in. dia. 100 Ohm single turn trim pot that I just happened to have in my "junk box". Mounted it flush against the bottom of the board and drilled a small hole in the bottom of the case for access. This allows the (no load) output voltage (in my particular unit) to be adjusted between 13.6V and 14.2V. Output drops a bit under load.

BTW, the output noise is amazingly low! When I saw the spec of "<100mV", I was a bit worried; ~100mV of noise could be deadly! However, I measured only 1mV RMS under no load; will see how it varies with load when I get some time.

72, L.

Date: Thu, 13 May 1999 10:13:10 -0500
From: "W5TB - 'Doc' Drake" <w5tb@SoftHome.net>
To: Bcieslak@ra.rockwell.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [40352] Re: NQ9RP at Dayton...
Message-ID: <v04011709b3609c69f3e1@[10.4.13.4]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>AE9K
>stuck at home again!!!

For those of us stuck at home -- any chance of a SKED with the Dayton QRP Gang? Surely there'll be a rig and antenna somewhere -- how about a Dayton Fox on 7040 one evening?

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>
QRP-ARCI # 3252 NORCAL #1002 QRP-L #673 FISTS # 5365
ARRL Life Member

Date: Thu, 13 May 1999 08:25:41 -0700 (PDT)
From: Theodore Wong <wong_th@eng.printronix.com>
To: qrp-l@lehigh.edu
Subject: [40353] trimmer capacitors
Message-ID: <199905131525.IAA18541@taz.printronix.com>

Hi,

I would like to know a source of the neat little trimmer capacitors used in the NORCAL 40A and NC-20. They are black and orange and have a capacitance range of 8 to 50 pf. The orange I assume is the color code used to identify the capacitance range. I ordered some trim caps from Circuit Specialist thinking they were the ones I was looking for but instead I got some with a brown body.

Regards,

Tedd AB6CO

Date: Thu, 13 May 1999 08:40:38 -0700
From: "Samuel A. Falvo II" <kc5tja@dolphin.openprojects.net>
To: qrp-l@lehigh.edu
Subject: [40354] Re: DESERT RATT (ascii drawing)
Message-ID: <19990513084038.A23747@dolphin.openprojects.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

> Or you can set the default font in Outlook Express to "Courier New"
> and be done with it. The advantage is that all posts will now look
> correct including all those cool signature lines etc. I gave up
> with non-proportional fonts for email a while back and just stick
> with Courier.

Just to let everyone know, Courier (New) /is/ a non-proportional font --
that's why it works. :-)

```
=====
      KC5TJA/6      |      -| TEAM DOLPHIN |-
      DM13          |      Samuel A. Falvo II
      QRP-L #1447   |      http://www.dolphin.openprojects.net
      Oceanside, CA |.....
```

Date: Thu, 13 May 1999 08:52:41 -0700 (PDT)
From: Ron Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [40355] FS = Sold (FT 101 EE)
Message-ID: <Pine.SOL.3.96.990513085123.2126C-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Great response!

The 101 is sold.

Thanks,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Thu, 13 May 1999 11:21:21 +0000
From: "Steven Weber" <kdljv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [40356] Re: VERY compact XCVR design requirement
Message-ID: <199905131605.MAA11521@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

> This rig must:
> operate on 9 volts, be WATER PROOF, output 1 watt
> be smaller than an altoids can
> dropped tested from....say.... 6 ft, and work fine after the test
>

Humm, smaller than an Altoids WITH a 9V battery? That would be a challenge! How about three lithium button cells?

I'd go with the AD607, Rx on a chip, custom monolithic xtal filter, DDS VFO, SMT cpu, SMT bandpass filters, built on three layer board (ground plane in the middle, Rx on one side, Tx on the other), and have a robot build it.

It could be done, but would be expensive!

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Thu, 13 May 1999 11:58:16 EDT
From: "Jeffrey L. L. Greer" <wd4et@juno.com>
To: scohen@xps.xybion.com
Cc: qrp-1@Lehigh.EDU
Subject: [40357] Re: More fun with a sound card
Message-ID: <19990513.122157.3998.13.wd4et@juno.com>

Steve,

NIR offers a serial port and development software similar to your description for their NIR-12 dual dsp unit. I believe their web page is at www.nir.com. It is expensive though ~ \$300 total. An alternative for experimentation is Texas Instrument's TMS320C5X DSP Starter Kit. Less than \$100 at Newark.

73, Jeff in Jacksonville, FL

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 May 1999 12:35:35 EDT
From: "Jeffrey L. L. Greer" <wd4et@juno.com>
To: schoen@xps.xybion.com
Cc: qrp-1@Lehigh.EDU
Subject: [40358] Re: More fun with a sound card
Message-ID: <19990513.123618.6486.1.wd4et@juno.com>

On Thu, 13 May 1999 11:58:16 EDT wd4et writes:

>Steve,

>

> >>***NIR**<< offers a serial port and development software
similar to

>your description for their NIR-12 dual dsp unit. I believe their web
>page is at www.>>***nir**<<.com. It is expensive though ~ \$300 total.

An

>alternative for experimentation is Texas Instrument's TMS320C5X DSP
>Starter Kit. Less than \$100 at Newark.

>

>73, Jeff in Jacksonville, FL

The above should have been JPS not NIR. I was typing faster than I can think!

i.e. Should be www.jps.com for JPS Communications, Inc.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 May 1999 12:39:42 EDT
From: AE2T@cs.com
To: adams@ticnet.com
Cc: qrp-1@lehigh.edu
Subject: [40359] Re: Arrived at Dayton - FDI
Message-ID: <127865c.246c5a4e@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 5/13/99 8:46:11 AM Eastern Daylight Time, adams@ticnet.com writes:

>
>
> Al,
>
> Do you have towels? hot water? A/C? dust bunnies
> under the bed? Inquiring minds wanna know?
>
> dit dit
>
> :-)

>
Yes, there IS hot water, at least last night there was :)

On lunch break, so gotta make it quick. Been great so far... wish everyone

not here could have made it.

72,

Al AE2t

Date: Thu, 13 May 1999 12:47:24 EDT
From: AE2T@cs.com
To: w5tb@softhome.net
Cc: qrp-l@lehigh.edu
Subject: [40360] Re: NQ9RP at Dayton...
Message-ID: <6d9134e2.246c5c1c@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 5/13/99 11:20:15 AM Eastern Daylight Time,
w5tb@SoftHome.net writes:

>
>
> For those of us stuck at home -- any chance of a SKED with the Dayton QRP
> Gang? Surely there'll be a rig and antenna somewhere -- how about a Dayton
> Fox on 7040 one evening?
>
> 73 T.E. 'Doc' Drake W5TB
>
> Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>
> QRP-ARCI # 3252 NORCAL #1002 QRP-L #673 FISTS # 5365
> ARRL Life Member
>

We were told today there would be antennas set up at one of the evening
functions, possibly Saturday's equipment night, but maybe sooner... I didn't
get the details. I suspect there will be activity each night. Stay tuned!

Also, saw someone stringing up a wire just a few minutes ago, so we are
there. I am on the ground floor (darn, I knew I should have brought the SLV
8-() but may sneak a wire out to a tree.

I'll spread the word people are looking for us!

72,

Al AE2T/8
(in Dayton)

Date: Thu, 13 May 1999 13:29:19 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [40361] re: Masthead Transceiver
Message-ID: <Pine.BSI.3.96.990513130946.27011A-1000000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ed & Steve,

Both good ideas on the subject. Yes, We have heard about putting the Transceiver or sometimes just the Transmitter right up there with the antenna many times before. I have personally brought it up a few times myself. Usually thought, My efforts turn out to be ideas only. :^)

The first that comes to mind is making a QRPp Beacon using only off the shelf kits and a couple of Hamsticks (Tm) on top of some PVC pipe that slips into the VENT Stack on the roof of the house.

Also under consideration was a nice loop using four "Black Widow" Fishin' poles.

The Rig was to be a "SMITEKIT" (SMD Pixie) with a "Tick Keyer" and and "Embedded Research" Switching power converter. A couple of "D" cells should run it for quite a while. (Actually that was a research project/experiment to determine how long it could actually run)

Ed's comment on the "Stealth Operations" also reminded me of a similar thought on this type of setup. I thought it would be really neat if someone (A lot smarter than me :^) could come up with a PIC Controller to handle the Data link/control of the transceiver via a Fiber Optic cable or a laser beam. Plenty of beamwidth for the data. Also thought of was to use one of the cheap Laser Pointers as the link to the remote transceiver. Using the Laser as the control link also has the added effect of making the remote fcc legal :^) Definately high enuff in freq. :^)

I am still anxiously waiting for the NJQRP Beacon Controller Pic to become a kit. That will be a great new toy to add to the Beacon Fun.

Also there are a few guys doing Beacons from Kites that can share some knowledge with us.

Who will be the first with an Antenna Mounted K2 complete with Solar Panel and Laser Control link to your Laptop? :^)

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Thu, 13 May 1999 18:21:31 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "QRP list" <qrp-l@lehigh.edu>
Subject: [40362] Regens & Hamcom
Message-ID: <E10hzIN-0000Bc-00@tungsten.btinternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My regen is on the bench and the first coil was a bit of a disaster, I couldn't get enough feedback. I left the nail varnish drying on the second when I left this morning. I'm currently some 200 miles north of home, visiting with Graham G3MFJ and have just seen his entry for the NORCAL construction contest and wow! This radio really does perform and Graham's design only uses a handful of components and not an I.C. in sight. In it's multi-coloured, embossed, extruded case it really looks great!

So beware, the Brits are coming!

72

Tony - G4WIF/K4WIF

Date: Thu, 13 May 1999 11:02:24 -0700
From: Bradford D Bilbrey <bigdawg74@juno.com>

To: qrp-1@Lehigh.EDU
Subject: [40363] Antenna Info
Message-ID: <19990513.110225.14086.2.bigdawg74@juno.com>

Thanks to all who responded to my request for info and opinions.

Although I posted it to QRP-L I ment to post it to the antenna list, but the responcees were still very good. My next problem is how I will put up this antenna at little or no cost (out of work currently and bored). My plans are to build a mast of graduated fence post pipe diameters (which I already have) to put the antenna at 32 feet. I will not use a rotator, but aim the the antenna north or east which ever is best for working Europe. The antenna will most likly be a quad as I don't have alot of aluminum for a monobander (we don't have trees in the desert, although some people call our big bushes trees so a wire beam is out). Bamboo spreaders will most likly be used. I will try inductivly loading the quad unless there are any good reasons not to.

Again thanks for the help.

72's
Brad KE7MU

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 May 1999 14:24:38 -0400
From: "Ken Simpson" <W8EK@fdt.net>
To: "QRP List" <qrp-1@lehigh.edu>
Subject: [40364] Kenwood Items FS
Message-ID: <00ce01be9d6d\$dcdbc340\$03f0fea9@kensimps>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For sale:

Apparently some people have changed their mind about
buying some of the items I listed a month or so ago.
In any case, the following are available:

Kenwood ST-2 desk charger for use with TR-2500/TR-2600.
Quick charge (about 1.5 hours), plus can be used to power

the HT at the same time. Great shape. \$ 75

Kenwood MS-1 mobile charger and stand. Runs off of 13 V DC.
Standard charge rate, but also powers the TR-2500/2600 HT.
\$ 35

Kenwood VB-2530 two meter amplifier. Up your HT power to
about 30 watts. Useful on most any HT. With original box
and manual. \$ 75

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-Mail to W8EK@fdt.net
<http://www.gnv.fdt.net/~kenmar>
Voice Phone (352) 732-8400

Date: Thu, 13 May 1999 14:37:32 EDT
From: Robspark@aol.com
To: qrp-1@lehigh.edu
Subject: [40365] AR QRP Club Net Results
Message-ID: <764c7175.246c75ec@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The AR-QRP Net last night had 6 QNIs amid noisy band conditions. The QRN continues to be heavy on 40m. The combination of storms and seasonal increase in summer noise have conspired to make skeds and nets a real challenge! It was great to hear some of the regulars check in as well a new QNI, N5IB, Jim, QTH Baton Rouge LA (right down the road from me). The net began at 0030Z and ended at 0100Z.

Here are the stations that checked in:

AG5P Walter

K8CV Walt
N0WM Wm
W2XN Fred
K1QM Joel
N5IB Jim

The NCS was Bob AB5ZD , using the AR QRP Club call NQ5RP, QTH Alexandria LA, running 5 watts to a G5RV up about 30 feet in pecan trees. Orientation of the ant wire is NNW to SSE. Following is a list of Arkansas QRP Club nets:

Monday Night	0030Z	3.560 mhz
Wednesday Night	0030Z	7.042 mhz

Non-members are welcome (and encouraged) to QNI!

72,

Bob AB5ZD

Date: Thu, 13 May 1999 18:44:35 +0100
From: peter barville <peter@barville.demon.co.uk>
To: QRP-L@lehigh.edu
Subject: [40366] QRP Quarterly and QRPP both in UK
Message-ID: <kMQrPSAD+w03EwQS@barville.demon.co.uk>
MIME-Version: 1.0

Just a brief note to confirm reports that BOTH publications have arrived here in the last 2 or 3 days. As ever - our thanks and congratulations go to the teams responsible for producing them.

--

For up to date information on QRP Dx operations, and QRP contests:
<http://www.qsl.net/g3xjs>

72, peter g3xjs g3xjs@qsl.net

Date: Thu, 13 May 1999 14:07:53 -0500
From: "JUNIUS B FOX" <w5hir@ghg.net>
To: <qrp-l@lehigh.edu>
Subject: [40367] 2n2/40
Message-ID: <005e01be9d73\$ebe054e0\$04000005@gte.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Who has info on the 2n2/40 kit, or schematic?

72,

Foxy w5hir@ghg.net
why kill hogs before you cure them ??

Date: Thu, 13 May 1999 13:21:46 -0700
From: "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
To: <kc5tja@dolphin.openprojects.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [40368] Re: DESERT RATT (ascii drawing)
Message-ID: <199905132016.NAA15862@newspaper.cwi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>
> > Or you can set the default font in Outlook Express to "Courier New"
> > and be done with it. The advantage is that all posts will now look
> > correct including all those cool signature lines etc. I gave up
> > with non-proportional fonts for email a while back and just stick
> > with Courier.
>
> Just to let everyone know, Courier (New) /is/ a non-proportional font --
> that's why it works. :-)
>

Right! Thank for picking that up! How about, just use fixed width fonts :)

73
Barry, AD6HR

Date: Thu, 13 May 1999 17:02:14 -0400
From: Laura Halliday <lha@sdr.utias.utoronto.ca>
To: qrp-1@lehigh.edu
Subject: [40369] Re: More fun with a sound card

Message-ID: <3.0.6.32.19990513170214.007d1100@madrox>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Steve Cohen, N3OIE wrote:

> I've never understood why there were a discrete markets for
> audio DSP boxes and digital mode boxes. Why don't the audio
> DSP box folks simply add an RS-232 port and some software...
> Viola! A DSP audio processing box / DSP digital modem for all of
> your favorite modes in one small(ish) box.

Such things are already available, in the guise of DSP evaluation boards. My Analog Devices board, for example, has stereo audio input and output, a DB-9 RS-232 port, several switches and LEDs and things. All of which are under program control, so a program running on the board could, for example, read samples, decide what bits they represent, and squirt them out the RS-232 port to a waiting host computer. It could also see what bits are coming from the host into the serial port and make the necessary noises out the audio port. Which sounds like a modem to me...

All of the DSP eval boards have similar facilities, and while they are made and sold to convince Real Engineers to use the products of their makers, they are excellent value for hobbyists.

> ...How far behind could a software development kit be so that
> the average DSP aware ham could design his own filters and
> modems? Sounds like nerdvana to me!

It's already here. And, yes, it *is* nerdvana.

Laura Halliday VA3LDH "Que les nuages soient notre pied
Grid: FN03gs a terre..." - Hospital/Shafte

Date: Thu, 13 May 1999 17:16:29 EDT

From: AE2T@cs.com

To: qrp-l@lehigh.edu

Subject: [40370] FDIM Scoop - K2 Winner

Message-ID: <20ced193.246c9b2d@cs.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

The winner of the 'virtual' K2 (a certificate for a K2) was none other than
FDIM speaker and attendee, L. B. Cebik, K4RNL.

Congratulations and can't think of a more deserving winner!

-- Al AE2T - live from Dayton

P. S. - The antenna is available for use in the QRP-L meeting room all three
nights. Listen for us! I'm sure there will be some of the rigs here on the
air.

Date: Thu, 13 May 1999 21:26:47 +0000
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: Arjen Raateland <Arjen.Raateland@vyh.fi>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [40371] Re: Da Desert Ratt stuff
Message-ID: <373B357E.26F8@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Paul Harden, NA5N wrote:

>
> Gang,
> If you're not interested in regens, exit now.

Is a 'regen' the same as a 'super regen'?

The reason why I ask is: In the sixties my cousin built me a transistor
'super regenerative' fox hunt receiver for 2 m and that's how I got into
ham radio I remember him explaining that the thing oscillates at
RF, but the oscillation is quenched at a low frequency rate.

Oh, the 'fox hunt' was quite unlike the QRP fox hunt on 40 m. I think it
would be called a hidden transceiver hunt or ARDF. Occasionally you
would be required to mark the location of a 'beacon' on the map as
accurately as possible without actually going for it. The foxes were AM
modulated and when you got close, you had to stop the regenerative
detector stage from oscillating to make it less sensitive. First I used
a dipole, but later a 2-element HB9CV antenna, which diminished the risk
of going off in the wrong direction, hi.

73,

--

Arjen Raateland

SAS Support
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Thu, 13 May 1999 14:25:12 -0700
From: "Samuel A. Falvo II" <kc5tja@dolphin.openprojects.net>
To: AE2T@cs.com
Cc: qrp-l@lehigh.edu
Subject: [40372] Re: NQ9RP at Dayton...
Message-ID: <19990513142512.A24524@dolphin.openprojects.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

> We were told today there would be antennas set up at one of the evening
> functions, possibly Saturday's equipment night, but maybe sooner... I didn't
> get the details. I suspect there will be activity each night. Stay tuned!

Someone mentioned having a Dayton Fox. Any chance of there being a Dayton
novice fox? Preferably somewhere in the range of 7100 to 7135? ;)

=====
KC5TJA/6 | -| TEAM DOLPHIN |-
DM13 | Samuel A. Falvo II
QRP-L #1447 | http://www.dolphin.openprojects.net
Oceanside, CA |.....

Date: Thu, 13 May 1999 17:39:07 -0400
From: Bill Cotter <bcotter@pop.uky.edu>
To: qrp-l@Lehigh.EDU
Subject: [40373] FS: Uniden HR-2600 ten meter transceiver
Message-ID: <3.0.5.32.19990513173907.009cce60@pop.uky.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale: Uniden HR-2600 in Excellent ++ Condition in original box
and packing.

Included are the up-down microphone, power cable assembly,
operating manual, mobile mounting bracket, mic bracket and all

associated hardware. This HR-2600 is serial number 95004768 (1995 mfg date) has been stored for the past several years and occasionally used when the band opens. Unit covers 28.0000 to 29.6999MHz in USB/LSB/AM/FM/CW modes with an output power of 25 watts and 10 watts on AM/FM. FM mode has repeater-split capability. This radio HAS NOT been modified in any manner, it is completely stock and works as new. Performance is outstanding with the band opening conditions we've had lately. \$195 plus shipping.

tnx es 73 Bill N4ALG
bcotter@pop.uky.edu

Bill Cotter	Mail: bcotter@pop.uky.edu
Technical Systems Project Manager	ICQ: 13117266
VPIS Special Projects Office	Pager: (606) 259-6082
McVey Hall, Room-100	Phone: (606) 323-6474
University of Kentucky	FAX: (606) 323-1978
Lexington, KY 40506-0045	Home: (606) 887-5563,2402

End of QRP-L Digest 1456

